

Earthquakes ▪ *Guided Reading and Study***Earthquake Safety**

This section explains how earthquakes cause damage. The section also describes how buildings can be constructed to withstand earthquakes and what people can do to help protect themselves from earthquakes.

Use Target Reading Skills

Complete the first column in the chart by previewing the red headings and asking a *what*, *how*, or *where* question for each. As you read the section, complete the second column with the answers.

Earthquake Safety	
Question	Answer
Where is quake risk highest?	Earthquake risk is highest . . .

Earthquake Risk

- What two factors do geologists take into account when they determine earthquake risk? _____

- Circle the letter of the location where the risk of earthquakes is highest in the United States.
 - along the Gulf of Mexico
 - along the Atlantic Coast
 - along the Great Lakes
 - along the Pacific Coast

Earthquakes ▪ Guided Reading and Study

How Earthquakes Cause Damage

3. What kinds of damage are caused by the severe shaking of an earthquake?

4. What determines where and how much the ground shakes?

5. Is the following sentence true or false? A house built on solid rock will shake more during an earthquake than a house built on sandy soil.

6. The process in which an earthquake's violent shaking turns loose, soft soil into liquid mud is called _____. This process is likely to occur where the soil is full of _____.

7. An earthquake that occurs after a larger earthquake in the same area is referred to as a(n) _____.

8. Large ocean waves usually caused by strong earthquakes below the ocean floor are called _____.

Steps to Earthquake Safety

9. What is the main danger to people during an earthquake?

10. Is the following sentence true or false? If no desk or table is available, you should crouch against an outside wall. _____

11. Is the following sentence true or false? If you are outdoors during an earthquake, you should move under a tree or building.

Earthquakes ▪ *Guided Reading and Study*

Earthquake Safety *(continued)*

Designing Safer Buildings

12. How can tall furniture be prevented from tipping over in an earthquake?

13. How can bedrooms be made safer during an earthquake?

14. How can a brick or wood-frame building be modified to help it withstand an earthquake?

15. What can be done when a new home is being built to help prevent damage caused by liquefaction?

16. How does a base-isolated building reduce the amount of energy that reaches the building during an earthquake?

17. How can earthquakes cause fire and flooding?
